



October 14, 2025

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Site Summary Report and Closure Request

San Juan 27-5 Unit 169M
Rio Arriba, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2435855327

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report and Closure Request* for the release of produced water and oil at the San Juan 27-5 Unit 169M natural gas production well (Site). The Site is located on private land in Unit K, Section 33, Township 27 North, Range 5 West, Rio Arriba, New Mexico (Figure 1).

SITE BACKGROUND

On December 17, 2024, Hilcorp operations identified a release of 17.83 barrels (bbls) of produced water and 0.75 bbls of oil at the Site. The Hilcorp field operator discovered a small hole near the bottom of the side wall of the aboveground storage tank (AST). Upon discovery, the operator drained the remaining 2 feet of oil into the on-Site below grade tank (BGT) to stop the leak. The leak's primary cause was due to corrosion of the tank. The release remained within the secondary containment berm and the release extent covered an area approximately 8 feet wide and 5 feet long. Additionally, approximately 10.5 bbls of fluid was recovered from within the berm.

Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) on December 23, 2024, and the Site was assigned release Incident Number nAPP2435855327.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC).

The Site is located in Tertiary (Eocene) age San Jose Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrogeologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

To assess Site-specific depth-to-groundwater, borehole BH01 was advanced on September 15, 2025, to a depth of 55 feet below ground surface (bgs). Soil logging indicated the borehole was dry to the terminal depth during drilling. Upon completion, the open borehole was allowed to equilibrate for 72 hours. A water-level indicator was used to assess for the presence or absence of groundwater on September 19, 2025. Groundwater was not encountered in the borehole at a depth of approximately 55 feet bgs, indicating the depth to groundwater beneath the Site is greater than 50 feet bgs. Information regarding the depth to water determination is provided in Appendix A, including the drilling log and photograph of the water-level indicator confirming no water encountered. The nearest well is a cathodic protection well located on the San Juan 27-5 Unit #35 well pad located 1,270 feet southwest of the Site (Appendix A). The recorded depth to water first encountered on the data sheet is 50 feet below ground surface (bgs). However, the narrative on the data sheet indicates that static ("standing") water was encountered the day after drilling at 80 feet bgs. Additionally, the well is approximately 20 feet lower in elevation than the Site. The second closest well is also a cathodic protection well located on the San Juan 27-5 Unit #68A well pad located 2,372 feet east of the Site with a recorded depth to water of 150 feet bgs (Appendix A). A third cathodic well is located 3,140 feet northeast of the Site on the San Juan 27-5 Unit #68A well pad with a recorded depth to water of 70 feet bgs (Appendix A). The nearest NMOSE permitted water well is, RG-81026, is located 1.6 miles northeast of the Site and has a recorded depth to water of 186 feet bgs (Appendix A). Based on this information, depth to groundwater at the Site is confirmed to be least greater than 50 feet bgs.

The closest significant watercourse is a dry wash located 602 feet northeast of the Site and is identified as a dashed blue line on a USGS 7.5-minute quadrangle map. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). No wellhead protection areas, springs, or domestic/stock wells are located within a 500-foot radius from the Site. The Site is not within the 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management (BLM)). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 10,000 mg/kg

2024 SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts resulting from the release, Ensolum advanced five hand auger borings (HA01 through HA05) on December 30, 2024. The NMOCD was notified prior to commencing on-Site activities, with sampling notifications provided in Appendix B. Boring HA01 was advanced within the release footprint inside of the secondary containment berm to assess petroleum hydrocarbon and chloride concentrations at the release source. Borings HA02 through HA05 were advanced outside of the release footprint to laterally delineate potential impacts results from the release (Figure 2). All hand auger borings were advanced to a depth of 5 feet bgs and encountered refusal at that depth. Soil samples were field screened at 1-foot intervals for the presence of organic vapors using a calibrated photoionization detector (PID) and chloride using Hach® QuanTab® test strips. PID field screening results are included in Table 1.

Two soil samples were collected from each boring: one from the depth interval indicating the greatest potential for impacts based on field screening measurements/observations and one from the terminus of each boring. Soil samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Eurofins Environment Testing for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographs taken during field activities are attached as Appendix C.

Concentrations of total BTEX, TPH, or chloride were not detected in any of the soil samples collected during the December 2024 assessment exceeding the applicable NMOCD Table I Closure Criteria. Soil sample analytical results are summarized in Table 1 and on Figure 2, with complete laboratory analytical reports attached as Appendix D.

CONCLUSIONS AND CLOSURE REQUEST

Based on the delineation activities and soil analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria. As such, Site conditions appear to be protective of human health, the environment, and groundwater and Hilcorp respectfully requests closure for Incident Number nAPP2435855327.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this document to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
Ensolum, LLC



Stuart Hyde
Senior Managing Geologist
(970) 903-1607
shyde@ensolum.com

Site Summary Report and Closure Request
San Juan 27-5 Unit 169M
Hilcorp Energy Company

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Attachments:

Figure 1: Site Map

Figure 2: Soil Analytical Results

Table 1: Soil Sample Analytical Results

Appendix A: Depth to Water Determination

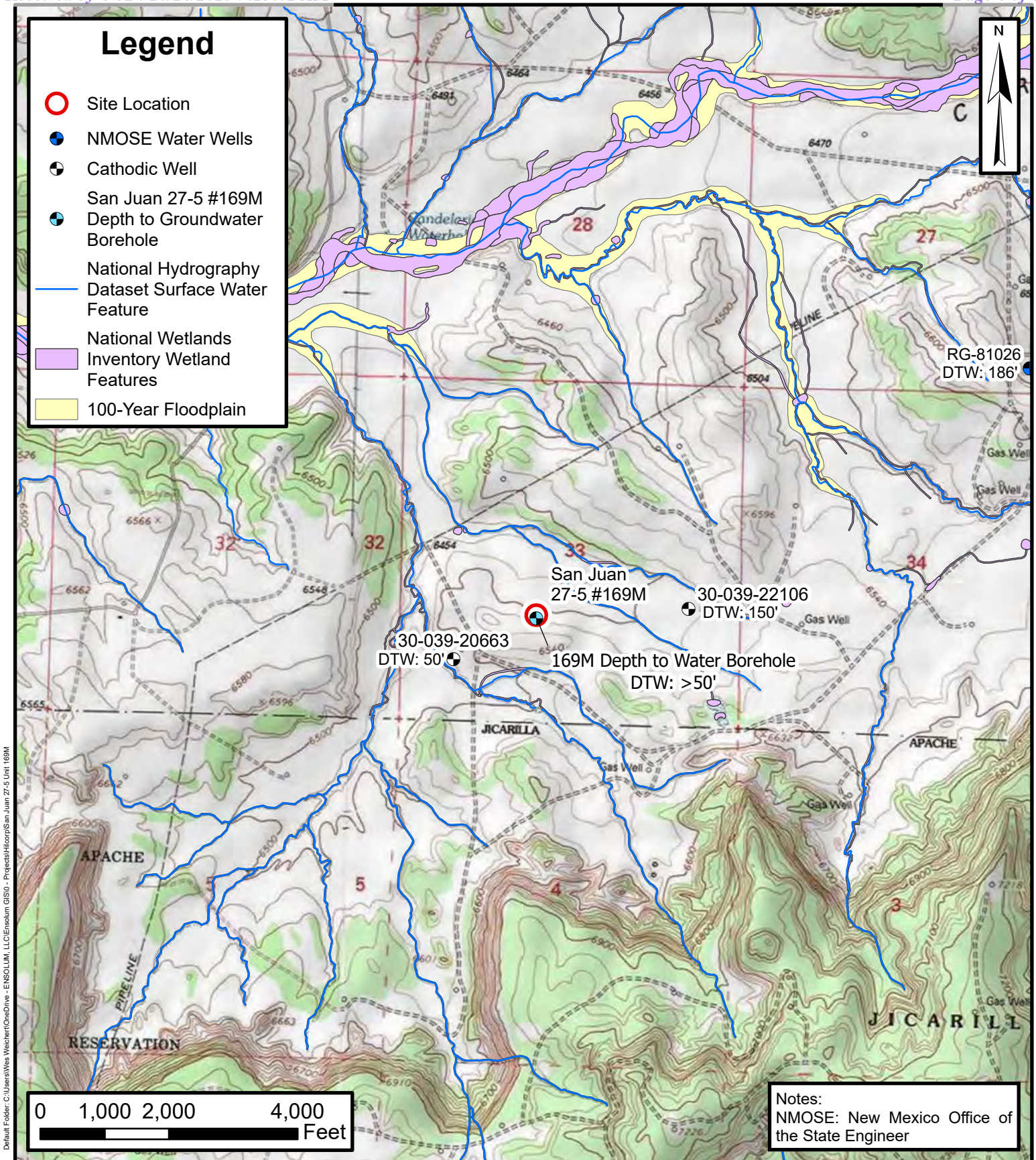
Appendix B: Agency Correspondence

Appendix C: Photographic Log

Appendix D: Laboratory Analytical Reports



FIGURES



Site Receptor Map

San Juan 27-5 Unit 169M
Hilcorp Energy Company

36.52815, -107.36524
Rio Arriba County, New Mexico

FIGURE

1



Legend

San Juan 27-5 #169M
Depth to Groundwater
Borehole

Sample Location in
Compliance with
NMOCD Closure
Criteria

HA04@1'
B: <0.023
BTEX: <0.093
TPH: <48
Cl: <59

HA04@5'
B: <0.025
BTEX: <0.10
TPH: <46
Cl: <60

HA01@2'
B: <0.24
BTEX: 45.8
TPH: 650
Cl: <60

HA01@5'
B: <0.024
BTEX: 0.11
TPH: <49
Cl: <60

HA03@1'
B: <0.024
BTEX: <0.098
TPH: <47
Cl: <60

HA03@5'
B: <0.023
BTEX: <0.094
TPH: <47
Cl: <60

HA05@1'
B: <0.024
BTEX: <0.098
TPH: <45
Cl: <60

HA05@5'
B: <0.023
BTEX: <0.093
TPH: <47
Cl: <60

169M Depth to Water Borehole
DTW: >50 ft bgs

HA02@1'
B: <0.024
BTEX: <0.097
TPH: <47
Cl: <60

HA02@5'
B: <0.024
BTEX: <0.096
TPH: <49
Cl: <60

Notes:

ft bgs: feet below ground surface
B: Benzene in Milligrams per Kilogram (mg/Kg)
BTEX: Total Benzene, Toluene, Ethylbenzene,
and Xylenes (mg/Kg)
TPH: Total Petroleum Hydrocarbons (mg/Kg)
Cl: Chloride (mg/Kg)
< : Indicates Result is below Laboratory
Reporting Limit
NMOCD: New Mexico Oil Conservation Division

0 12.5 25 50
Feet

Soil Sample Analytical Results

San Juan 27-5 Unit 169M
Hilcorp Energy Company
36.52815, -107.36524
Rio Arriba County, New Mexico

FIGURE
2

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 San Juan 27-5 Unit 169M
 Hilcorp Energy Company
 Rio Arriba County, NM

Sample Identification	Date	Depth (feet bgs)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	10,000
HA01 @ 1'	12/30/2024	1	254	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 2'		2	5,000	<0.24	6.9	2.9	36	45.8	450	200	<48	650	650	<60
HA01 @ 3'		3	2,516	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 4'		4	508	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA01 @ 5'		5	521	<0.024	<0.048	<0.048	0.11	0.11	<4.8	<9.7	<49	<9.7	<49	<60
HA02 @ 1'	12/30/2024	1	1.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<9.4	<47	<60
HA02 @ 2'		2	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA02 @ 3'		3	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA02 @ 4'		4	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA02 @ 5'		5	2.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<9.9	<49	<60
HA03 @ 1'	12/30/2024	1	1.1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<9.4	<47	<60
HA03 @ 2'		2	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03 @ 3'		3	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03 @ 4'		4	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA03 @ 5'		5	0.4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<9.4	<47	<60
HA04 @ 1'	12/30/2024	1	1.0	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<48	<9.6	<48	<59
HA04 @ 2'		2	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 3'		3	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 4'		4	0.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA04 @ 5'		5	0.2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<9.2	<46	<60
HA05 @ 1'	12/30/2024	1	14.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<45	<9.1	<45	<60
HA05 @ 2'		2	2.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 3'		3	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 4'		4	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HA05 @ 5'		5	7.0	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.4	<47	<9.4	<47	<60

Notes:

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

PID: Photoionization detector

ppm: Parts per million

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

NS: Not sampled

TPH: Total Petroleum Hydrocarbon


': Feet


<: Indicates result less than the stated laboratory reporting limit (RL)



APPENDIX A

Depth to Water Determination

					Client: H:icorp Project Name: SJ 27-5 #169M Project Location: Project Manager: Stuart Hyde		BORING LOG NUMBER DTW Project No.:	
Date Sampled: 9/15/25 Drilled By: Enviro-Drill Driller: Rodney Begay Logged By: Osgood Froelich					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 8" Casing Diameter: 2" Well Materials: PVC Surface Completion: Stick... Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PIID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
0								
1								
2								
3								
4	1320							
5	X	2-3-	60%		ML	Mostly SILT w/ many clays + few sands SHALE		
6	X	50-3"				Dry, grey, some tan, no o/s, mostly silt w/ some clay + few fine sands, non coh/plst		2" PVC casing
7								
8								
9	1328							
10	X	15-	60%		CL	Clay w/ much silt + trace sands SHALE		
11	X	50-5"				Dry, grey, some/few tan/brown, no o/s, mostly clay w/ many silts + trace fine sands, brittle, low plst (w/ sp:it), non coh		
12								
13								
14	1340							
15	X	50-5"	20%		ML	Silt w/ few fine sands SILTSTONE		
16	X					Dry, white/grey, no o/s silt w/ some/few fine sands, non plst/coh		
17								
18								
19	1358							
20	X	OF 50-4"	25%		ML	SILT w/ few sands SILTSTONE		
21	X	50-2"				SAA, slightly darker grey...		
22								
23								
24	1408							
25	X	50-3"	10%		ML	Silt w/ some fine sands SILTSTONE		
						SAA, slightly more brown/tan now grey/tan/white, slightly more fine sand		

					Client: Hilcorp Project Name: Project Location: SJ 27-5 #169M Project Manager: S. Hyde		BORING LOG NUMBER DTW Project No.:	
Date Sampled: 9/15/25 Drilled By: Enviro-Drill Driller: Rodney B. Logged By: Osgood F.					Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate:		Borehole Diameter: 8" Casing Diameter: 2" Well Materials: PVC Surface Completion: Boring Method: HSA	
DEPTH (FEET)	SAMPLE INTERVAL	BLOW COUNT	RECOVERY (%)	FID/PID READING (PPM)	USCS SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION	
25						Previous page.		
26								
27								
28								
29	1422							
30	X	50-3"	OF 20% 15%		SM	Silty sand SANDSTONE - Dry, grey/white/tan, no o/s, well graded med. - v.f. sand w/ much silt.		
31	X							
32								
33								
34	1441							
35	X	50-4"	15%		SM	Silty sand SANDSTONE - SAA		
36	X							
37								
38								
39	1455							
40	X	50-3"	10%		SM	Silty sand SANDSTONE - SAA		
41	X							
42								
43								
44	1507							
45	X	OF 50-3" 50-5"	10%		SM	Silty sand SANDSTONE - SAA, Dry, grey/white, no o/s, well graded v.f. - med sand w/ much silt.		
46	X							
47								
48								
49	1516							
50	X	50-5"	20%		SW-SM	Well graded sand w/ silt SANDSTONE - Dry, almost moist, dark grey, well graded v.f. - med sand w/ some silt (almost moist = almost damp still dry.)		

2" PVC casing

Screen 50'-55' bgs

Screen :
50' - 55' bgs

DAILY DRILLING REPORT

JOB COMPLETED ☐ YES ☐ NONO. JOBS THIS DAY 1Client ENSOLUMProject SAN JUAN 27-5 #169MDate 9-15-25Start: 7:00End: 6:00Location 36.52815 - 107.56524Job No. 23-25 516

City _____

Project Type: ☐ Contract ☐ WT ☒ Enviro ☐ Geotech ☐ Labor Only ☐ Other

CLIENT HOLE NO.	DRILL DEPTH FROM -	DRILL DEPTH TO -	PERCOLATION	BIT SIZE	BIT TYPE	NO. OF SAMPLES				FORMATION DRILLED AND DEPTH
						RING	SPLIT	CA	BN	
1	0	55'	Set well							<input checked="" type="checkbox"/> SAND <input checked="" type="checkbox"/> SILT <input type="checkbox"/> CLAY <input type="checkbox"/> CALICHE <input type="checkbox"/> GRAVEL <input type="checkbox"/> COBBLES <input checked="" type="checkbox"/> MEDIUM SOFT <input checked="" type="checkbox"/> MEDIUM HARD <input checked="" type="checkbox"/> EXTREMELY HARD <input type="checkbox"/> REFUSAL GROUNDWATER TABLE ENCOUNTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO GROUNDWATER DEPTH _____
FOOTAGE DRILLED						DRILL RATE PER HOUR		TOTAL SAMPLES		

FUNCTION	SERVICE PERFORMED	QTY.	RATE	CHARGE	RENTALS / SUPPLIES	QTY.	RATE	CHARGE
262	MAKE READY / DECONTAMINATION - BEFORE / AFTER JOB	1.0			SUPPORT VEHICLE / TRAILER			
212	MOBILIZE / DEMOBILIZE EQUIPMENT	5.0			GENERATOR			
212	DRILLING INCLUDES:				TRAILER(S)			
	SAFETY MEETING				CORING MACHINE / SAW CUT			
	DRILL OPERATIONS	3.5			BULLET TEETH			
	REAMING HOLE(S)				PORTLAND CEMENT			
	MOVING BETWEEN SITE(S)				PRE-MIX			
	GROUTING, HOURS _____ FEET _____				ASPHALT			
	SITE CLEANUP				VISQUEEN			
212	MISCELLANEOUS LABOR INCLUDES:				DRUMS			
	DECONTAMINATION SERVICES				BRASS SLEEVES, SIZE:			
	MOVING DRUMS				PVC CASING IN. X 5 FT.			
	CREW TRAVEL WITHOUT RIG	1.5			PVC CASING IN. X 10 FT.			
212	LABORER				SCREEN .0 _____ 0 SLOT IN. X 5 FT.			
212	WELL INSTALLATION				SCREEN .0 _____ 0 SLOT IN. X 10 FT.			
212	WELL DEVELOPMENT				TOP LOCKING CAP			
212	WELL ABANDONMENT				BOTTOM CAP			
250	STANDBY & DELAYS (EXPLAIN)				SAND-SACKS, GRADE NO.:			
212	CREW OVERTIME				WELL VAULT, SIZE: IN.			
-	PER DIEM				BENTONITE PELLETS, PAILS:			
212	MEAL / MISC. BREAKS (DOT REQUIRED)				BENTONITE POWDER, SACKS:			
278	CREW BREAK				JACK HAMMER			
276	PERMITS / REPORTS				AIR COMPRESSOR, SIZE:			
277	SUPERVISORY TIME				Hole plug	24		

REMARKS:

MAN-HOUR ALLOCATION		HOURS
OPERATOR	<u>Rod B</u>	11.0
ASSISTANT	<u>Johnny</u>	11.0
LABORER		

- SIGNATURE APPROVING WORK CONTENT -

CLIENT SIGNATURE: _____

P.O./W.O./JOB NO.: _____

EQUIPMENT	UNIT NO.	STARTING MILEAGE	ENDING MILEAGE	TOTAL MILES	RATE	CHARGE
RIG	1112					
SUPPORT VEHICLE	1131					
RIG / TRUCK DOWN TIME, HOURS (EXPLAIN BELOW)						
DAMAGED OR LOST EQUIPMENT: _____						

White - Invoicing; Yellow - Client

Enviro-Drill, Inc.

DIRECTION
108 deg(T)

36.52800°N
107.36584°W

ACCURACY 3 m
DATUM WGS84



San Juan 27-5
#169M

DTW Boring

2025-09-15
14:15:12-06:00

DIRECTION
327 deg(T)

36.52798°N
107.36583°W

ACCURACY 4 m
DATUM WGS84



San Juan 27-5
#169M

55' bgs spoon

2025-09-15
15:31:09-06:00

Jicarilla & Hilcorp
San Juan 27-4 #37 M / 27-5 #169 M

9/19/25

1345 onsite @ 27-4 #37

DRY - 54.15 TD

1515 onsite @ 27-5 #169

DRY - 55.22 TD

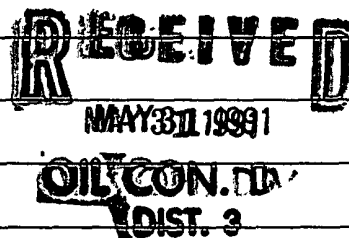


30-039-22106

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SE Sec. 33 Twp 27 Rng 5Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #68A

cps 1794w

Elevation 6514' Completion Date 10/24/85 Total Depth 340' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 150'Depths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 320', 310', 300', 290', 280', 270', 260', 250', 240', 230'Depths vent pipes placed: N/AVent pipe perforations: 260'Remarks: gb #1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM 07-023a (Rev. 8-82)

WELL-CASING

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☐Completion Date 10-24-85

CPS #	Well Name, Line or Plant:	Work Order #	Static	Ins. Union Check
1794 W	S.J. 27-5 #68 A	57728.	.68	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type:	Size Bit	
SE 33-27-5	2' x 60"	Deriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
340	340			
Anode Depth				
# 1 320	# 2 310	# 3 300	# 4 290	# 5 280
# 6 270	# 7 260	# 8 250	# 9 240	# 10 230
Anode Output (Amps)				
# 1 4.4	# 2 4.6	# 3 3.6	# 4 3.2	# 5 2.4
# 6 2.6	# 7 4.1	# 8 3.3	# 9 3.6	# 10 3.4
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance				
Volts 12.5	Amps 15.9	Ohms .78	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

Remarks: Driller said he hit water at 150' and had some moist sand at 50'. Drilled with air and light foam mixture. Vent pipe is perforated up to 80'

Rectifier Size: 40 V 16 A - 900.00
 Addn'l Depth: 160 x 3.00 = 480.00
 Depth Credit: 237' x .37 = 87.69
 Extra Cable: 267' x 1.35 = 360.45
 Ditch & 1 Cable: 267' x 1.35 = 360.45
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: ONE - 400.00

All Construction Completed

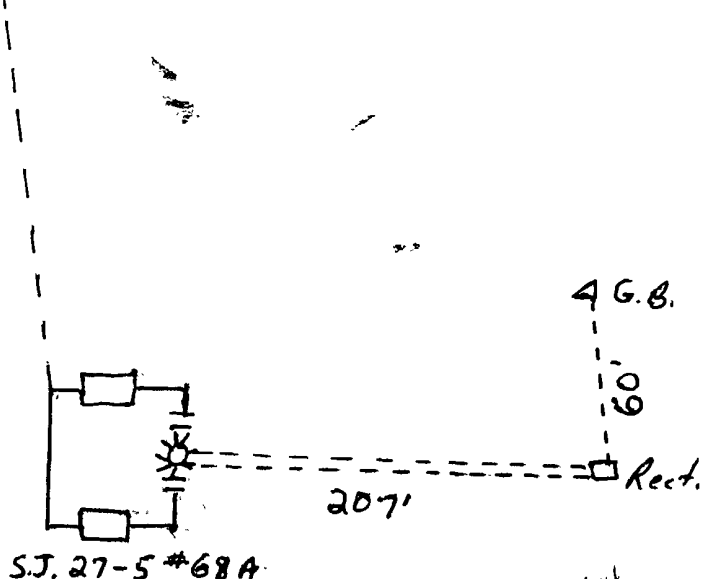
Randy Smith
 (Signature)

GROUND BED LAYOUT SKETCH

4740.00
 - 480.00
 87.69
 360.45
 900.00
 400.00
 300.00
 \$6308.14

10-24-85

Reg	O.T.
08	4



CONSTRUCTION LOGGING READINGS

CPS #: 1794W WELL NAME: 55-27-5 #817 LOCATION: 5633-27-5 DATE: 10-24-85

TOTAL VOLTS: 12.5 TOTAL AMPS: 15.9 OHMS RESISTANCE: -78

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	1.2		365			545			1	320	2.7	4.4
10			190	1.3		370			550			2	310	3.1	4.6
15			195	2.1		375			555			3	300	2.7	3.6
20			200	1.7		380			560			4	290	2.4	3.2
25			205	1.4		385			565			5	280	1.7	2.4
30			210	1.1		390			570			6	270	1.9	2.6
35			215	1.0		395			575			7	260	3.1	4.1
40			220	1.0		400			580			8	250	2.0	3.3
45			225	1.5		405			585			9	240	2.3	3.6
50			230	2.4	10	410			590			10	230	2.4	3.4
55			235	2.6		415			595						
60			240	2.3	9	420			600						
65			245	2.2		425			605						
70			250	2.0	8	430			610						
75			255	2.6		435			615						
80			260	2.9	7	440			620						
85			265	2.2		445			625						
90			270	1.8	6	450			630						
95			275	1.7		455			635						
100			280	1.8	5	460			640						
105			285	1.7		465			645						
110			290	2.5	4	470			650						
115			295	2.0		475			655						
120			300	2.8	3	480			660						
125			305	3.1		485			665						
130			310	2.9	2	490			670						
135			315	2.8		495			675						
140			320	2.4	1	500			680						
145			325	1.1		505			685						
150	1.0		330	.7		510			690						
155	.8		335	.4		515			695						
160	1.0		340	TD	340	520			700						
165	1.2		345			525			705						
170	1.1		350			530			710						
175	1.2		355			535			715						
180	1.2		360			540			720						

REMARKS: Vent pipe is perforated up to 80'

Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE SF 079394 WELL NO. 68-A CONTRACTOR Loftis LO RIG NO. DD-1 REPORT NO. 14 DATE 10-24 1988

MORNING

DAYLIGHT

EVENING

Driller <u>Off O Brant</u> Total Men In Crew <u>5</u>					Driller _____ Total Men In Crew _____					Driller _____ Total Men In Crew _____				
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
<u>8</u>	<u>50</u>	<u>Acad</u>												
<u>50</u>	<u>100</u>	<u>Sandy Shale</u>												
<u>100</u>	<u>180</u>	<u>Sand</u>												
<u>180</u>	<u>340</u>	<u>Sandy Shale</u>												

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS - <u>2 1/2 Vols at 50 + 160 feet</u>	REMARKS -	REMARKS -

SIGNED: Toolpusher

Company Supervisor

1082

35-30-039-06786

169-30-039-20663

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 33 Twp 27 Rng 5Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #35, #169

cps 1793w

Elevation 6493' Completion Date 10/21/85 Total Depth 300' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 50' & 140' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 3750 lbs.Depths anodes placed: 245', 235', 225', 205', 195', 185', 175', 145', 110', 100'Depths vent pipes placed: 297'Vent pipe perforations: 260'Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM 07-0238 (Rev. 6-82)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐Completion Date 10/21/85

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1793 W	S.J. 27-5 # 169 S.J. 27-5 # 35	55421. 53567.	.77V S .75V W	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location:	Anode Size:	Anode Type	Size Bit:	
SW 33-27-5	2" X 60"	DURION	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Goke Used	Lost Circulation Mat'l Used
300'	297'		3750	
Anode Depth				
# 1 245	# 2 235	# 3 225	# 4 205	# 5 195
# 6 185	# 7 175	# 8 145	# 9 110	# 10 100
Anode Output (Amps)				
# 1 2.8	# 2 3.5	# 3 4.0	# 4 3.0	# 5 3.8
# 6 3.9	# 7 3.1	# 8 2.9	# 9 5.0	# 10 5.3
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	No. 8 C.P. Cable Used			
Volts 11.4	Amps 17.6	Ohms .65	No. 2 C.P. Cable Used	

Remarks: Drilled To 140'. Driller said WATER AT 50' & 140'. WATER STANDING IN HOLE NEXT A.M. AT 80'. Drilled TO 300', Logged 297'. INSTALLED 297' of 1" P.V.C. VENT pipe, Perforated To 22'.

Rectifier Size: 40 V 16 A - 900.00
 Addn'l Depth —
 Depth Credit: 203 x 3.00 = 609.
 Extra Cable: 220' x .37 = 81.40.
 Ditch & 1 Cable: 440' x .35 = 594.00.
 25' Meter Pole: —
 20' Meter Pole: —
 10' Stub Pole: 1 - 400

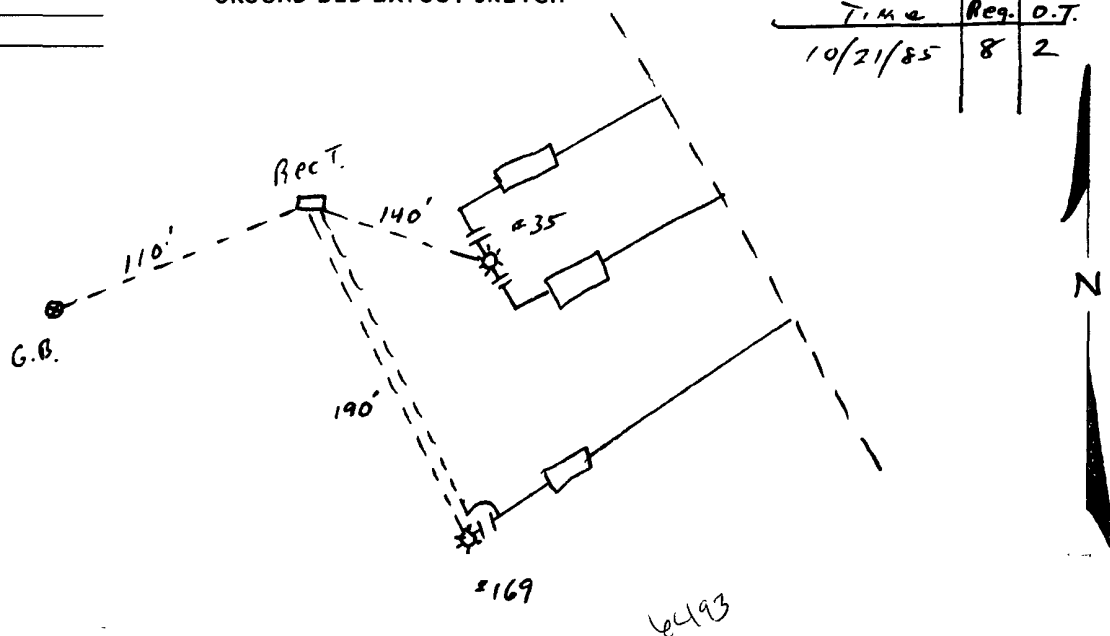
All Construction Completed

JE Stott
(Signature)

GROUND BED LAYOUT SKETCH

Time	Reg.	O.T.
10/21/85	8	2

4740.00
 - 609.00
 81.40
 594.00
 900.00
 400.00
 300.00
6406.40.



EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSES

ANALYSIS NO.: 1-11809
OPERATOR: MERIDIAN OIL
LOCATION: SW 33-27-5
FIELD: GOBERNADOR
SAMPLED FROM: GROUND BED AT 40 FEET
DATE SAMPLED: OCTOBER 21, 1985
TUBING PRESSURE:
SURFACE CASING PRESSURE:
DATE: NOVEMBER 22, 1985
WELL NAME: SAN JUAN 27-5 #169 CPS
COUNTY: RIO ARriba
FORMATION: SURFACE
SECURED BY: JOE STOUTS
CASING PRESSURE:

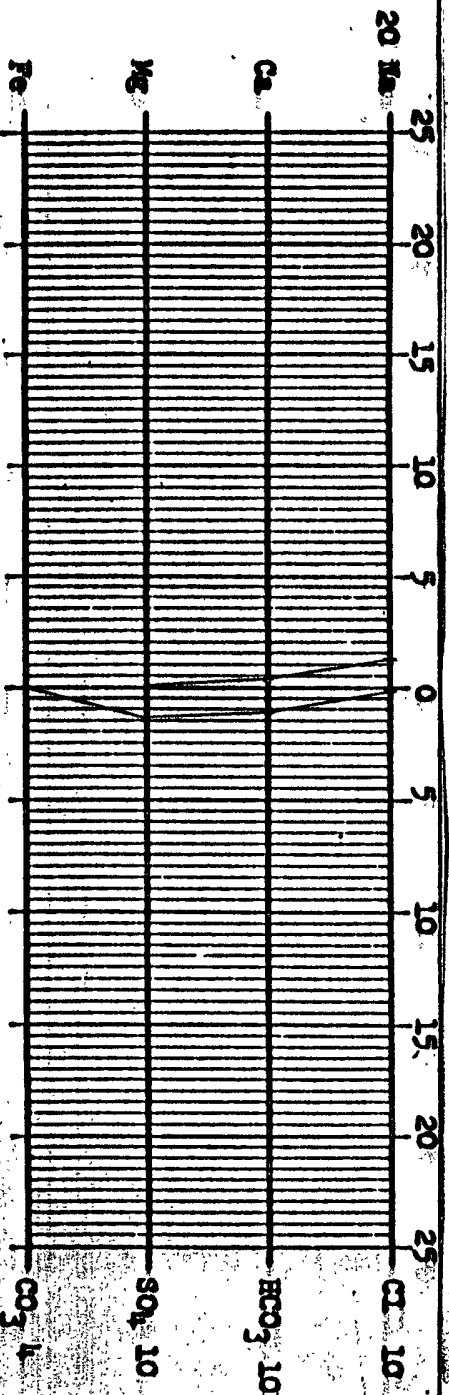
	SAMPLE SIZE	ml. TIT	AS CaCO ₃	AS ION	epm
TOTAL ALKALINITY	25	13.1	524		
P ALKALINITY	25	0	0		
BICARBONATE	25	13.1	524		639 10.48
CARBONATE	25	0	0		0 0.00
CHLORIDE	50	1			20 0.56
SULFATE	50				682 14.19
TOTAL HARDNESS	50	9	18		
CALCIUM	50	9	18		7 0.36
MAGNESIUM	50	0	0		0 0.00
IRON					
SODIUM (CALCULATED)					572 24.87
H ₂ S					
HYDROCARBONS					
TOTAL DISSOLVED SOLIDS					1480
PH					8.27
SPECIFIC GRAVITY					1.011 AT 60F
RESISTIVITY					417 OHM-CM AT 71
CONDUCTIVITY					2400 MICROMHOS @ 25C.

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 PPM

CC: R. A. ULLRICH
J. D. EVANS
D. C. ADAMS
W. F. LORETT
J. L. WILLIAMS
G. C. KARDOS

DENNIS BIRD

CHEMIST *CEK*



CONSTRUCTION LOGGING READINGS

CPS #: 1793 W WELL NAME: S.J. 27-5 UNIT #169 LOCATION: SW33-27-5 DATE: 10/21/85

TOTAL VOLTS: 11.4 TOTAL AMPS: 17.6 OHMS RESISTANCE: .65

												ANODE READINGS:			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	2.0	⑥	365			545			1	245	1.7	2.8
10			190	2.0		370			550			2	235	2.0	3.5
15			195	1.8	⑤	375			555			3	225	2.1	4.0
20			200	1.7		380			560			4	205	1.8	3.0
25			205	1.7	④	385			565			5	195	2.0	3.8
30			210	1.6		390			570			6	185	2.1	3.9
35			215	1.5		395			575			7	175	1.8	3.1
40			220	1.5		400			580			8	145	1.8	2.9
45			225	1.8	③	405			585			9	110	3.3	5.0
50			230	2.3		410			590			10	100	3.4	5.3
55			235	2.0	②	415			595						
60			240	1.5		420			600						
65			245	1.6	①	425			605						
70			250	1.2		430			610						
75			255	1.5		435			615						
80			260	1.6		440			620						
85			265	1.0		445			625						
90			270	.8		450			630						
95			275	.6		455			635						
100	3.3	⑩	280	.4		460			640						
105	3.4		285	2.0		465			645						
110	3.2	⑨	290	2.1		470			650						
115	1.5		295	2.97	T.D.	475			655						
120	.6		300			480			660						
125	.7		305			485			665						
130	.6		310			490			670						
135	.4		315			495			675						
140	.7		320			500			680						
145	1.7	⑧	325			505			685						
150	1.4		330			510			690						
155	1.2		335			515			695						
160	1.2		340			520			700						
165	1.1		345			525			705						
170	1.4		350			530			710						
175	1.7	⑦	355			535			715						
180	1.9		360			540			720						

REMARKS: Drilled To 140'. Driller said WATER AT 50' & 140', WATER STANDING IN HOLE NEXT A.M. AT 80'. Drilled To 300'. Logged 2.97'. Installed 297' of 1" P.V.C. VENT Pipe, Perforated To 37'.

C.P.S. 1793-W

SIGNED: Toolpusher

____ Company Supervisor

1115

68-30039-06847

142-30-039-20466

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NE Sec. 33 Twp 27 Rng 5Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #68, #142
cps 1802wElevation 6496' Completion Date 10/24/85 Total Depth 320' Land Type* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 70' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 3940 lbs.Depths anodes placed: 270', 260', 250', 200', 190', 180', 170', 160', 130', 100'Depths vent pipes placed: 315'Vent pipe perforations: 260'Remarks: (gb #1)

RECEIVED
MAY 31 1991
OIL CON. D.
DIST. ?

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

FM 07-0238 (Rev. 6-82)

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 10/24/85

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins Union Check
1802 W	S.J. 22-5 #68	54076	.64V 5	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
	S.J. 22-5 #142	54978	.74V 5	
Location	Anode Size	Anode Type	Size Bit	
NE 33-27-5	2" X 60"	Durion	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
320	315		3940	
Anode Depth				
# 1 270	# 2 260	# 3 250	# 4 200	# 5 190
# 6 180	# 7 170	# 8 160	# 9 130	# 10 100
Anode Output (Amps)				
# 1 3.8	# 2 4.1	# 3 4.1	# 4 3.8	# 5 4.1
# 6 4.1	# 7 4.1	# 8 3.9	# 9 3.9	# 10 5.1
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 19.2	Ohms .61		

Remarks: Drilled To 140'. Driller said WATER AT 70'. WATER STANDING
IN HOLE NEXT A.M. AT 70'. Drilled To 320', Logged 315'.
INSTALLED 315' of 1" P.V.C. VENT PIPE, PERFORATED TO SS'.

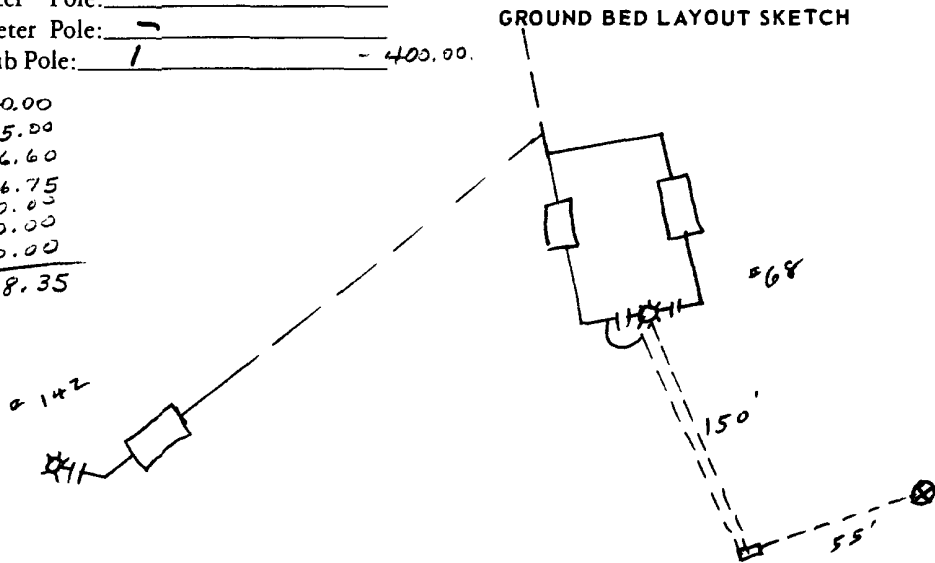
Rectifier Size: 60 V 30 A - 1150.00
Addn'l Depth
Depth Credit: 185' x 3.00 = 555.00
Extra Cable: 180' x .37 = 66.60
Ditch & 1 Cable: 205' x 1.35 = 276.75
25' Meter Pole:
20' Meter Pole:
10' Stub Pole: 1 - 400.00

4740.00
- 555.00
66.60
276.75
1150.00
400.00
300.00
6378.35

All Construction Completed

JE Stalla
(Signature)

GROUND BED LAYOUT SKETCH



Time 10/24/85 8 3
A.M. P.M. O.T.

SOLUTION (CALCULATED)
H2S
HYDROCARBONS
TOTAL DISSOLVED SOLIDS
pH
SPECIFIC GRAVITY
RESISTIVITY
CONDUCTIVITY

588 25.59
ABSENT
ABSENT
1602
8.9

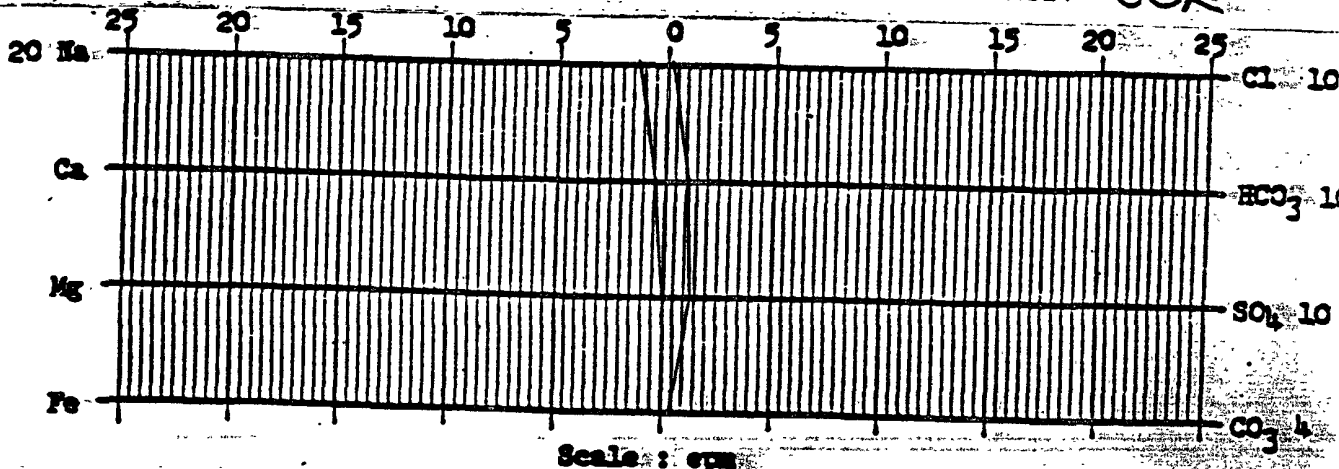
NT AT 60F
417 OHM-CM AT
2400 MICROMHOS @ 25C.

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 ppm

CC: R. A. ULLRICH
J. D. EVANS
D. C. ADAMS
W. F. LORETT
J. L. WILLIAMS
G. C. KARDOS
FILE

SANDRA ARAGON

CHEMIST GCR



CONSTRUCTION LOGGING READINGS

CPS #: 1802 ✓ WELL NAME: S.J. 27-5 #68 LOCATION: NE 33-27-5 DATE: 10/24/85

TOTAL VOLTS: 11.8 TOTAL AMPS: 19.2 OHMS RESISTANCE: .61

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185	1.7		365			545			1	270	2.6	3.8
10			190	2.3 - ⑤		370			550			2	260	2.5	4.1
15			195	2.8		375			555			3	250	2.6	4.1
20			200	2.0 - ④		380			560			4	200	2.4	3.8
25			205	1.5		385			565			5	190	2.6	4.1
30			210	1.1		390			570			6	180	2.7	4.1
35			215	1.0		395			575			7	170	2.1	4.1
40			220	.9		400			580			8	160	1.8	3.9
45			225	1.0		405			585			9	130	2.4	3.9
50			230	1.2		410			590			10	100	3.2	5.1
55			235	1.1		415			595						
60			240	1.3		420			600						
65			245	1.6		425			605						
70			250	2.1 - ③		430			610						
75			255	2.8		435			615						
80	1.7		260	2.2 - ②		440			620						
85	2.2		265	2.8		445			625						
90	2.1		270	2.4 - ①		450			630						
95	2.0		275	1.6		455			635						
100	2.1 - ⑩		280	1.5		460			640						
105	2.0		285	1.4		465			645						
110	1.8		290	1.9 -		470			650						
115	1.6		295	1.4		475			655						
120	1.3		300	1.5		480			660						
125	1.9		305	1.3		485			665						
130	1.9 - ⑨		310			490			670						
135	1.7		315	T.D 315		495			675						
140	1.7		320			500			680						
145	1.7		325			505			685						
150	1.0		330			510			690						
155	1.2		335			515			695						
160	1.9 - ⑧		340			520			700						
165	2.1		345			525			705						
170	2.2 - ⑦		350			530			710						
175	2.2		355			535			715						
180	2.6 - ⑥		360			540			720						

REMARKS: Drilled To 140', Driller said WATER AT 70'. WATER
STANDING IN HOLE NEXT A.M. AT 70'. Drilled To 320',
Logged 315'. INSTALLED 315' of 1" P.V.C. VENT PIPE, Perforated
To 55'.

Form 22-2 (Rev 5-79)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE 37-5 37-5 WELL NO. 68 #142 CONTRACTOR C.P.S 1802-U RIG NO. REPORT NO. DATE 10/24/85 19

MORNING					DAYLIGHT					EVENING				
Driller <u>Tim C Riffel</u> Total Men In Crew <u>5</u>					Driller _____ Total Men In Crew _____					Driller _____ Total Men In Crew _____				
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS -	REMARKS -	REMARKS -
0-60 SANDY BROWN SHALE		
60-80 WATER SAND (WATER)		
80-280 BLUE SHALE		
280-320 SANDY BLUE SHALE		
DRILLED 320 FT		
T.D. 315		

SIGNED: Toolpusher

Tim C Riffel

Company Supervisor

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

1. OWNER OF WELL

Name: Bureau of Land Management Work Phone: 505-699-6320
 Contact: Dale Wirth Home Phone: _____
 Address: Farmington Field Office
1235 La Plata Highway
 City: Farmington State: NM Zip: 87401

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SW 1/4 SE 1/4 SE 1/4 Section: 27 Township: 27N Range: 5W N.M.P.M.
 in Rio Arriba County.
 B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
 _____ Zone in the _____ Grant.
 U.S.G.S. Quad Map _____
 C. Latitude: _____ d _____ m _____ s Longitude: _____ d _____ m _____ s
 D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)
 E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey
 F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
 _____ Subdivision recorded in _____ County.
 G. Other: _____
 H. Give State Engineer File Number if existing well: _____
 I. On land owned by (required): Bureau of Land Management

3. DRILLING CONTRACTOR

License Number: WD 1254 Work Phone: 505-321-4510
 Name: Sunbelt Drilling Home Phone: _____
 Agent: Rod Beeman
 Mailing Address: 11011 E. Palm way
 City: Geld Canyon State: AZ Zip: 85218

4. DRILLING RECORD

Drilling began: 9-12-03; Completed: 9-16-03; Type tools: _____
 Size of hole: 9 7/8 in.; Total depth of well: 460 ft.;
 Completed well is: Shallow (shallow, artesian);
 Depth to water upon completion of well: 186 ft.

File Number: RG 81026
 Form: wr-20

Trn Number: 283266

page 1 of 4

Montoya
2nd well

File Number: RG 810216

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
<u>180</u>	<u>195</u>	<u>15</u>	<u>gray sandstone</u>	<u>1/4 gpm</u>
<u>430</u>	<u>460</u>	<u>30</u>	<u>gray sandstone</u>	<u>2-3 gpm</u>

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>10"</u>	<u>34</u>		<u>-1</u>	<u>19</u>	<u>20</u>			
<u>5"</u>	<u>SDR17</u>		<u>0</u>	<u>452</u>	<u>452</u>		<u>412</u>	<u>452</u>

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
<u>0</u>	<u>19</u>	<u>15"</u>	<u>6</u>	<u>10</u>	<u>Pour / Freefall Surface</u>

8. PLUGGING RECORD

Plugging Contractor: _____
 Address: _____
 Plugging Method: _____
 Date Well Plugged: _____

Plugging approved by: _____
 State Engineer Representative

	No.	Depth in Feet	Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: RG 810216
 Form: wr-20

Trn Number: 283266
 page 2 of 4

Montoya
 2nd well

File Number: RG 81026

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

[illegible]

File Number: RG 81026
Form: wr-20

Trn Number: 28321616

page 3 of 4

Montoya
2nd well

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD[illegible]

9/25/03
(mm/dd/year)

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

Montoya
2nd well



John R. D Antonio, Jr., P.E.
State Engineer

Santa Fe Office
PO BOX 25102
SANTA FE, NM 87504-5102

**STATE OF NEW MEXICO
STATE ENGINEER OFFICE**

Trn Nbr: 283266
File Nbr: RG 81026
Well File Nbr: RG 81026

Oct. 02, 2003

DALE WIRTH
BUREAU OF LAND MANAGEMENT
1235 LA PLATA HIGHWAY
FARMINGTON, NM 87401

Greetings:

Enclosed is your copy of the well record for the above numbered permit, which has been accepted for filing.

Sincerely,

A handwritten signature in cursive script that reads "Daylene Martinez".

Daylene Martinez
(505) 827-6120

Enclosure
cc: Albuquerque Office

wellrrcv



APPENDIX B

Agency Correspondence

From: OCDOnline@state.nm.us
To: [Stuart Hyde](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 415440
Date: Friday, December 27, 2024 8:26:53 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2435855327.

The sampling event is expected to take place:

When: 12/30/2024 @ 10:00

Where: K-33-27N-05W 1690 FSL 2065 FWL (36.528286,-107.3658905)

Additional Information: Contact PM Stuart Hyde 970-903-1607

Additional Instructions: Hilcorp San Juan 27-5 #169M well pad, 36.52815, -107.36524

We are requesting a variance from the 2-business day sampling notification requirement outlined in 19.15.29.12(D)(1)(a) to allow soil sampling at the San Juan 27-5 #169M to occur on Monday December 30, 2024 beginning at 10:00 AM. The original sampling notification was submitted on 12/23/2024 for work to begin on 12/27/2024 which has been delayed due to the holiday week.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Hall, Brittany, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Velez, Nelson, EMNRD](#); [Samantha Grabert](#); [Zach Myers](#)
Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 415440
Date: Friday, December 27, 2024 8:31:08 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

[**EXTERNAL EMAIL**]

Stuart,

The variance is approved. Please proceed on your schedule. Nelson will still be your contact for this release but due to him being out for the holiday, I appreciate you reaching out for the variance.

Please include a copy of this email in your next submittal.

I hope you had a wonderful Christmas, and have a happy New Year.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Stuart Hyde <shyde@ensolum.com>
Sent: Friday, December 27, 2024 8:29 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Samantha Grabert <Samantha.Grabert@hilcorp.com>; Zach Myers <zmyers@ensolum.com>
Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 415440

CAUTION: This email originated outside of our organization. Exercise caution prior to

clicking on links or opening attachments.

Brittany,

We are requesting a variance from the 2-business day sampling notification requirement outlined in 19.15.29.12(D)(1)(a) to allow soil sampling at the San Juan 27-5 #169M to occur on Monday December 30, 2024 beginning at 10:00 AM. The original sampling notification was submitted on 12/23/2024 for work to begin on 12/27/2024, which has been delayed due to the holiday week.

Please reach out with any questions regarding the site. Thanks and have a great weekend.



Stuart Hyde, PG

(Licensed in WA/TX)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, December 27, 2024 8:27 AM

To: Stuart Hyde <shyde@ensolum.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 415440

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2435855327.

The sampling event is expected to take place:

When: 12/30/2024 @ 10:00

Where: K-33-27N-05W 1690 FSL 2065 FWL (36.528286,-107.3658905)

Additional Information: Contact PM Stuart Hyde 970-903-1607

Additional Instructions: Hilcorp San Juan 27-5 #169M well pad, 36.52815, -107.36524

We are requesting a variance from the 2-business day sampling notification requirement outlined in 19.15.29.12(D)(1)(a) to allow soil sampling at the San Juan 27-5 #169M to occur on Monday December 30, 2024 beginning at 10:00 AM. The original sampling notification was submitted on 12/23/2024 for work to begin on 12/27/2024 which has been delayed due to the holiday week.

An OCD representative may be available onsite at the date and time reported. In the absence

or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



APPENDIX C

Photographic Log



Photographic Log
Hilcorp Energy Company
San Juan 27-5 169M



Photograph: 1
Description: Hand auger delineation
View: North

Date: 12/30/2024



APPENDIX D

Laboratory Analytical Reports



Environment Testing

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11

ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301
Generated 1/9/2025 10:18:55 AM

JOB DESCRIPTION

San Juan 27 5 Un 169M

JOB NUMBER

885-17745-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Released to Imaging: 1/13/2025 1:10:11 PM

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
1/9/2025 10:18:55 AM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Laboratory Job ID: 885-17745-1

Table of Contents

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Definitions/Glossary

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum LLC
Project: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Job ID: 885-17745-1

Eurofins Albuquerque

Job Narrative 885-17745-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/31/2024 7:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Gasoline Range Organics

Method 8015D_GRO: Surrogate recovery for the following sample was outside control limits: HA01@2' (885-17745-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 885-18756 and analytical batch 885-18776 recovered outside control limits for the following analytes: Diesel Range Organics [C10-C28]. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_OF_28D_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 885-18717 and analytical batch 885-18689 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA01@2'

Lab Sample ID: 885-17745-1

Date Collected: 12/30/24 11:42

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	450		48	mg/Kg		12/31/24 17:11	01/02/25 17:31	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	35 - 166			12/31/24 17:11	01/02/25 17:31	10

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.24	mg/Kg		12/31/24 17:11	01/02/25 17:31	10
Ethylbenzene	2.9		0.48	mg/Kg		12/31/24 17:11	01/02/25 17:31	10
Toluene	6.9		0.48	mg/Kg		12/31/24 17:11	01/02/25 17:31	10
Xylenes, Total	36		0.97	mg/Kg		12/31/24 17:11	01/02/25 17:31	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		48 - 145			12/31/24 17:11	01/02/25 17:31	10

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	200		9.5	mg/Kg		01/08/25 08:48	01/08/25 17:30	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		01/08/25 08:48	01/08/25 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			01/08/25 08:48	01/08/25 17:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 12:42	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA01@5'

Lab Sample ID: 885-17745-2

Date Collected: 12/30/24 11:50

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		12/31/24 17:11	01/02/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		35 - 166			12/31/24 17:11	01/02/25 17:55	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		12/31/24 17:11	01/02/25 17:55	1
Ethylbenzene	ND		0.048	mg/Kg		12/31/24 17:11	01/02/25 17:55	1
Toluene	ND		0.048	mg/Kg		12/31/24 17:11	01/02/25 17:55	1
Xylenes, Total	0.11		0.096	mg/Kg		12/31/24 17:11	01/02/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		48 - 145			12/31/24 17:11	01/02/25 17:55	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.7	mg/Kg		01/02/25 15:40	01/03/25 14:29	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		01/02/25 15:40	01/03/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	117		62 - 134			01/02/25 15:40	01/03/25 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 13:14	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA02@1'

Lab Sample ID: 885-17745-3

Date Collected: 12/30/24 12:43

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		12/31/24 17:11	01/02/25 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			12/31/24 17:11	01/02/25 19:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		12/31/24 17:11	01/02/25 19:07	1
Ethylbenzene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 19:07	1
Toluene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 19:07	1
Xylenes, Total	ND		0.097	mg/Kg		12/31/24 17:11	01/02/25 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		48 - 145			12/31/24 17:11	01/02/25 19:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4	mg/Kg		01/02/25 15:40	01/03/25 14:39	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		01/02/25 15:40	01/03/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	105		62 - 134			01/02/25 15:40	01/03/25 14:39	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 13:25	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA02@5' Lab Sample ID: 885-17745-4
Date Collected: 12/30/24 12:51 Matrix: Solid
Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		12/31/24 17:11	01/02/25 20:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	112		35 - 166			12/31/24 17:11	01/02/25 20:18	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		12/31/24 17:11	01/02/25 20:18	1	
Ethylbenzene	ND		0.048	mg/Kg		12/31/24 17:11	01/02/25 20:18	1	
Toluene	ND		0.048	mg/Kg		12/31/24 17:11	01/02/25 20:18	1	
Xylenes, Total	ND		0.096	mg/Kg		12/31/24 17:11	01/02/25 20:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		48 - 145			12/31/24 17:11	01/02/25 20:18	1	

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND	*+	9.9	mg/Kg		01/02/25 15:40	01/03/25 14:50	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		01/02/25 15:40	01/03/25 14:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	113		62 - 134			01/02/25 15:40	01/03/25 14:50	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 13:36	20	

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA03@1' Lab Sample ID: 885-17745-5
Date Collected: 12/30/24 13:15 Matrix: Solid
Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		12/31/24 17:11	01/02/25 20:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		35 - 166			12/31/24 17:11	01/02/25 20:41	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		12/31/24 17:11	01/02/25 20:41	1	
Ethylbenzene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 20:41	1	
Toluene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 20:41	1	
Xylenes, Total	ND		0.098	mg/Kg		12/31/24 17:11	01/02/25 20:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		48 - 145			12/31/24 17:11	01/02/25 20:41	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND	*+	9.4	mg/Kg		01/02/25 15:40	01/03/25 15:01	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		01/02/25 15:40	01/03/25 15:01	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	114		62 - 134			01/02/25 15:40	01/03/25 15:01	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 13:47	20	

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA03@5'

Lab Sample ID: 885-17745-6

Date Collected: 12/30/24 13:27

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		12/31/24 17:11	01/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166			12/31/24 17:11	01/02/25 21:05	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		12/31/24 17:11	01/02/25 21:05	1
Ethylbenzene	ND		0.047	mg/Kg		12/31/24 17:11	01/02/25 21:05	1
Toluene	ND		0.047	mg/Kg		12/31/24 17:11	01/02/25 21:05	1
Xylenes, Total	ND		0.094	mg/Kg		12/31/24 17:11	01/02/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145			12/31/24 17:11	01/02/25 21:05	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4	mg/Kg		01/02/25 15:40	01/03/25 15:16	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		01/02/25 15:40	01/03/25 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			01/02/25 15:40	01/03/25 15:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 13:58	20

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Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA04@1'

Lab Sample ID: 885-17745-7

Date Collected: 12/30/24 14:10

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		12/31/24 17:11	01/02/25 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			12/31/24 17:11	01/02/25 21:29	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		12/31/24 17:11	01/02/25 21:29	1
Ethylbenzene	ND		0.046	mg/Kg		12/31/24 17:11	01/02/25 21:29	1
Toluene	ND		0.046	mg/Kg		12/31/24 17:11	01/02/25 21:29	1
Xylenes, Total	ND		0.093	mg/Kg		12/31/24 17:11	01/02/25 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145			12/31/24 17:11	01/02/25 21:29	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.6	mg/Kg		01/02/25 15:40	01/03/25 15:48	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		01/02/25 15:40	01/03/25 15:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			01/02/25 15:40	01/03/25 15:48	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		01/02/25 11:17	01/02/25 14:30	20

Eurofins Albuquerque

Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA04@5'

Lab Sample ID: 885-17745-8

Date Collected: 12/30/24 14:21

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		12/31/24 17:11	01/02/25 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			12/31/24 17:11	01/02/25 21:52	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		12/31/24 17:11	01/02/25 21:52	1
Ethylbenzene	ND		0.050	mg/Kg		12/31/24 17:11	01/02/25 21:52	1
Toluene	ND		0.050	mg/Kg		12/31/24 17:11	01/02/25 21:52	1
Xylenes, Total	ND		0.10	mg/Kg		12/31/24 17:11	01/02/25 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145			12/31/24 17:11	01/02/25 21:52	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.2	mg/Kg		01/02/25 15:40	01/03/25 16:04	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		01/02/25 15:40	01/03/25 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			01/02/25 15:40	01/03/25 16:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 14:41	20

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Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA05@1'

Lab Sample ID: 885-17745-9

Date Collected: 12/30/24 13:44

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		12/31/24 17:11	01/02/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			12/31/24 17:11	01/02/25 22:16	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		12/31/24 17:11	01/02/25 22:16	1
Ethylbenzene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 22:16	1
Toluene	ND		0.049	mg/Kg		12/31/24 17:11	01/02/25 22:16	1
Xylenes, Total	ND		0.098	mg/Kg		12/31/24 17:11	01/02/25 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			12/31/24 17:11	01/02/25 22:16	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.1	mg/Kg		01/02/25 15:40	01/03/25 16:15	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		01/02/25 15:40	01/03/25 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			01/02/25 15:40	01/03/25 16:15	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 14:52	20

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Client Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA05@5'

Lab Sample ID: 885-17745-10

Date Collected: 12/30/24 14:02

Matrix: Solid

Date Received: 12/31/24 07:35

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		12/31/24 17:11	01/02/25 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			12/31/24 17:11	01/02/25 22:39	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		12/31/24 17:11	01/02/25 22:39	1
Ethylbenzene	ND		0.047	mg/Kg		12/31/24 17:11	01/02/25 22:39	1
Toluene	ND		0.047	mg/Kg		12/31/24 17:11	01/02/25 22:39	1
Xylenes, Total	ND		0.093	mg/Kg		12/31/24 17:11	01/02/25 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145			12/31/24 17:11	01/02/25 22:39	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND	*+	9.4	mg/Kg		01/02/25 15:40	01/03/25 16:25	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		01/02/25 15:40	01/03/25 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			01/02/25 15:40	01/03/25 16:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		01/02/25 11:17	01/02/25 15:03	20

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-18672/1-A

Matrix: Solid

Analysis Batch: 18747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18672

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		12/31/24 17:11	01/02/25 17:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		35 - 166			12/31/24 17:11	01/02/25 17:07	1

Lab Sample ID: LCS 885-18672/2-A

Matrix: Solid

Analysis Batch: 18747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.1		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	225		35 - 166				

Lab Sample ID: 885-17745-2 MS

Matrix: Solid

Analysis Batch: 18747

Client Sample ID: HA01@5'

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.3	29.7		mg/Kg		106	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	233		35 - 166						

Lab Sample ID: 885-17745-2 MSD

Matrix: Solid

Analysis Batch: 18747

Client Sample ID: HA01@5'

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.3	31.0		mg/Kg		111	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	242		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-18672/1-A

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18672

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		12/31/24 17:11	01/02/25 17:07	1
Ethylbenzene	ND		0.050	mg/Kg		12/31/24 17:11	01/02/25 17:07	1
Toluene	ND		0.050	mg/Kg		12/31/24 17:11	01/02/25 17:07	1

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QC Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-18672/1-A

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18672

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		12/31/24 17:11	01/02/25 17:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		48 - 145			12/31/24 17:11	01/02/25 17:07	1

Lab Sample ID: LCS 885-18672/3-A

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.14		mg/Kg		114	70 - 130
Ethylbenzene	1.00	1.20		mg/Kg		120	70 - 130
m&p-Xylene	2.00	2.34		mg/Kg		117	70 - 130
o-Xylene	1.00	1.16		mg/Kg		116	70 - 130
Toluene	1.00	1.17		mg/Kg		117	70 - 130
Xylenes, Total	3.00	3.50		mg/Kg		117	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	113		48 - 145				

Lab Sample ID: 885-17745-3 MS

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: HA02@1'

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.969	1.08		mg/Kg		111	70 - 130
Ethylbenzene	ND		0.969	1.17		mg/Kg		120	70 - 130
m&p-Xylene	ND		1.94	2.29		mg/Kg		118	70 - 130
o-Xylene	ND		0.969	1.13		mg/Kg		116	70 - 130
Toluene	ND		0.969	1.15		mg/Kg		118	70 - 130
Xylenes, Total	ND		2.91	3.42		mg/Kg		117	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		48 - 145						

Lab Sample ID: 885-17745-3 MSD

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: HA02@1'

Prep Type: Total/NA

Prep Batch: 18672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.966	1.03		mg/Kg		106	70 - 130	5	20
Ethylbenzene	ND		0.966	1.12		mg/Kg		115	70 - 130	4	20
m&p-Xylene	ND		1.93	2.22		mg/Kg		115	70 - 130	3	20
o-Xylene	ND		0.966	1.08		mg/Kg		112	70 - 130	4	20
Toluene	ND		0.966	1.09		mg/Kg		113	70 - 130	5	20
Xylenes, Total	ND		2.90	3.30		mg/Kg		114	70 - 130	3	20

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QC Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-17745-3 MSD

Matrix: Solid

Analysis Batch: 18746

Client Sample ID: HA02@1'

Prep Type: Total/NA

Prep Batch: 18672

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-18756/1-A

Matrix: Solid

Analysis Batch: 18776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18756

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/02/25 15:40	01/03/25 12:38	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/02/25 15:40	01/03/25 12:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	146	S1+	62 - 134			01/02/25 15:40	01/03/25 12:38	1

Lab Sample ID: LCS 885-18756/2-A

Matrix: Solid

Analysis Batch: 18776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	90.1	*+	mg/Kg		180	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	168	S1+	62 - 134				

Lab Sample ID: MB 885-18972/1-A

Matrix: Solid

Analysis Batch: 18977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18972

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		01/08/25 08:48	01/08/25 10:05	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		01/08/25 08:48	01/08/25 10:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			01/08/25 08:48	01/08/25 10:05	1

Lab Sample ID: LCS 885-18972/2-A

Matrix: Solid

Analysis Batch: 18977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	52.1		mg/Kg		104	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	100		62 - 134				

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-18717/1-A

Matrix: Solid

Analysis Batch: 18689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18717

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		01/02/25 11:17	01/02/25 12:11	1

Lab Sample ID: LCS 885-18717/2-A

Matrix: Solid

Analysis Batch: 18689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.6		mg/Kg		92	90 - 110

Lab Sample ID: 885-17745-1 MS

Matrix: Solid

Analysis Batch: 18689

Client Sample ID: HA01@2'

Prep Type: Total/NA

Prep Batch: 18717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150

Lab Sample ID: 885-17745-1 MSD

Matrix: Solid

Analysis Batch: 18689

Client Sample ID: HA01@2'

Prep Type: Total/NA

Prep Batch: 18717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

Lab Sample ID: MB 885-18760/1-A

Matrix: Solid

Analysis Batch: 18765

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18760

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		01/03/25 07:24	01/03/25 08:57	1

Lab Sample ID: LCS 885-18760/2-A

Matrix: Solid

Analysis Batch: 18765

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.7		mg/Kg		92	90 - 110

Eurofins Albuquerque

QC Association Summary

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

GC VOA

Prep Batch: 18672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	5030C	
885-17745-2	HA01@5'	Total/NA	Solid	5030C	
885-17745-3	HA02@1'	Total/NA	Solid	5030C	
885-17745-4	HA02@5'	Total/NA	Solid	5030C	
885-17745-5	HA03@1'	Total/NA	Solid	5030C	
885-17745-6	HA03@5'	Total/NA	Solid	5030C	
885-17745-7	HA04@1'	Total/NA	Solid	5030C	
885-17745-8	HA04@5'	Total/NA	Solid	5030C	
885-17745-9	HA05@1'	Total/NA	Solid	5030C	
885-17745-10	HA05@5'	Total/NA	Solid	5030C	
MB 885-18672/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-18672/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-18672/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-17745-2 MS	HA01@5'	Total/NA	Solid	5030C	
885-17745-2 MSD	HA01@5'	Total/NA	Solid	5030C	
885-17745-3 MS	HA02@1'	Total/NA	Solid	5030C	
885-17745-3 MSD	HA02@1'	Total/NA	Solid	5030C	

Analysis Batch: 18746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	8021B	18672
885-17745-2	HA01@5'	Total/NA	Solid	8021B	18672
885-17745-3	HA02@1'	Total/NA	Solid	8021B	18672
885-17745-4	HA02@5'	Total/NA	Solid	8021B	18672
885-17745-5	HA03@1'	Total/NA	Solid	8021B	18672
885-17745-6	HA03@5'	Total/NA	Solid	8021B	18672
885-17745-7	HA04@1'	Total/NA	Solid	8021B	18672
885-17745-8	HA04@5'	Total/NA	Solid	8021B	18672
885-17745-9	HA05@1'	Total/NA	Solid	8021B	18672
885-17745-10	HA05@5'	Total/NA	Solid	8021B	18672
MB 885-18672/1-A	Method Blank	Total/NA	Solid	8021B	18672
LCS 885-18672/3-A	Lab Control Sample	Total/NA	Solid	8021B	18672
885-17745-3 MS	HA02@1'	Total/NA	Solid	8021B	18672
885-17745-3 MSD	HA02@1'	Total/NA	Solid	8021B	18672

Analysis Batch: 18747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	8015M/D	18672
885-17745-2	HA01@5'	Total/NA	Solid	8015M/D	18672
885-17745-3	HA02@1'	Total/NA	Solid	8015M/D	18672
885-17745-4	HA02@5'	Total/NA	Solid	8015M/D	18672
885-17745-5	HA03@1'	Total/NA	Solid	8015M/D	18672
885-17745-6	HA03@5'	Total/NA	Solid	8015M/D	18672
885-17745-7	HA04@1'	Total/NA	Solid	8015M/D	18672
885-17745-8	HA04@5'	Total/NA	Solid	8015M/D	18672
885-17745-9	HA05@1'	Total/NA	Solid	8015M/D	18672
885-17745-10	HA05@5'	Total/NA	Solid	8015M/D	18672
MB 885-18672/1-A	Method Blank	Total/NA	Solid	8015M/D	18672
LCS 885-18672/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18672
885-17745-2 MS	HA01@5'	Total/NA	Solid	8015M/D	18672
885-17745-2 MSD	HA01@5'	Total/NA	Solid	8015M/D	18672

Eurofins Albuquerque

QC Association Summary

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

GC Semi VOA

Prep Batch: 18756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-2	HA01@5'	Total/NA	Solid	SHAKE	
885-17745-3	HA02@1'	Total/NA	Solid	SHAKE	
885-17745-4	HA02@5'	Total/NA	Solid	SHAKE	
885-17745-5	HA03@1'	Total/NA	Solid	SHAKE	
885-17745-6	HA03@5'	Total/NA	Solid	SHAKE	
885-17745-7	HA04@1'	Total/NA	Solid	SHAKE	
885-17745-8	HA04@5'	Total/NA	Solid	SHAKE	
885-17745-9	HA05@1'	Total/NA	Solid	SHAKE	
885-17745-10	HA05@5'	Total/NA	Solid	SHAKE	
MB 885-18756/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-18756/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 18776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-2	HA01@5'	Total/NA	Solid	8015M/D	18756
885-17745-3	HA02@1'	Total/NA	Solid	8015M/D	18756
885-17745-4	HA02@5'	Total/NA	Solid	8015M/D	18756
885-17745-5	HA03@1'	Total/NA	Solid	8015M/D	18756
885-17745-6	HA03@5'	Total/NA	Solid	8015M/D	18756
885-17745-7	HA04@1'	Total/NA	Solid	8015M/D	18756
885-17745-8	HA04@5'	Total/NA	Solid	8015M/D	18756
885-17745-9	HA05@1'	Total/NA	Solid	8015M/D	18756
885-17745-10	HA05@5'	Total/NA	Solid	8015M/D	18756
MB 885-18756/1-A	Method Blank	Total/NA	Solid	8015M/D	18756
LCS 885-18756/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18756

Prep Batch: 18972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	SHAKE	
MB 885-18972/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-18972/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 18977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	8015M/D	18972
MB 885-18972/1-A	Method Blank	Total/NA	Solid	8015M/D	18972
LCS 885-18972/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	18972

HPLC/IC

Analysis Batch: 18689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	300.0	18717
885-17745-2	HA01@5'	Total/NA	Solid	300.0	18717
885-17745-3	HA02@1'	Total/NA	Solid	300.0	18717
885-17745-4	HA02@5'	Total/NA	Solid	300.0	18717
885-17745-5	HA03@1'	Total/NA	Solid	300.0	18717
885-17745-6	HA03@5'	Total/NA	Solid	300.0	18717
885-17745-7	HA04@1'	Total/NA	Solid	300.0	18717
885-17745-8	HA04@5'	Total/NA	Solid	300.0	18717
885-17745-9	HA05@1'	Total/NA	Solid	300.0	18717

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QC Association Summary

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

HPLC/IC (Continued)

Analysis Batch: 18689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-10	HA05@5'	Total/NA	Solid	300.0	18717
MB 885-18717/1-A	Method Blank	Total/NA	Solid	300.0	18717
LCS 885-18717/2-A	Lab Control Sample	Total/NA	Solid	300.0	18717
885-17745-1 MS	HA01@2'	Total/NA	Solid	300.0	18717
885-17745-1 MSD	HA01@2'	Total/NA	Solid	300.0	18717

Prep Batch: 18717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-17745-1	HA01@2'	Total/NA	Solid	300_Prep	
885-17745-2	HA01@5'	Total/NA	Solid	300_Prep	
885-17745-3	HA02@1'	Total/NA	Solid	300_Prep	
885-17745-4	HA02@5'	Total/NA	Solid	300_Prep	
885-17745-5	HA03@1'	Total/NA	Solid	300_Prep	
885-17745-6	HA03@5'	Total/NA	Solid	300_Prep	
885-17745-7	HA04@1'	Total/NA	Solid	300_Prep	
885-17745-8	HA04@5'	Total/NA	Solid	300_Prep	
885-17745-9	HA05@1'	Total/NA	Solid	300_Prep	
885-17745-10	HA05@5'	Total/NA	Solid	300_Prep	
MB 885-18717/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-18717/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-17745-1 MS	HA01@2'	Total/NA	Solid	300_Prep	
885-17745-1 MSD	HA01@2'	Total/NA	Solid	300_Prep	

Prep Batch: 18760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-18760/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-18760/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 18765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-18760/1-A	Method Blank	Total/NA	Solid	300.0	18760
LCS 885-18760/2-A	Lab Control Sample	Total/NA	Solid	300.0	18760

Lab Chronicle

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA01@2'

Lab Sample ID: 885-17745-1

Date Collected: 12/30/24 11:42

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		10	18747	JP	EET ALB	01/02/25 17:31
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		10	18746	JP	EET ALB	01/02/25 17:31
Total/NA	Prep	SHAKE			18972	MI	EET ALB	01/08/25 08:48
Total/NA	Analysis	8015M/D		1	18977	MI	EET ALB	01/08/25 17:30
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 12:42

Client Sample ID: HA01@5'

Lab Sample ID: 885-17745-2

Date Collected: 12/30/24 11:50

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 17:55
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 17:55
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 14:29
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 13:14

Client Sample ID: HA02@1'

Lab Sample ID: 885-17745-3

Date Collected: 12/30/24 12:43

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 19:07
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 19:07
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 14:39
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 13:25

Client Sample ID: HA02@5'

Lab Sample ID: 885-17745-4

Date Collected: 12/30/24 12:51

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 20:18

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Lab Chronicle

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA02@5'

Lab Sample ID: 885-17745-4

Date Collected: 12/30/24 12:51

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 20:18
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 14:50
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 13:36

Client Sample ID: HA03@1'

Lab Sample ID: 885-17745-5

Date Collected: 12/30/24 13:15

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 20:41
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 20:41
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 15:01
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 13:47

Client Sample ID: HA03@5'

Lab Sample ID: 885-17745-6

Date Collected: 12/30/24 13:27

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 21:05
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 21:05
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 15:16
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 13:58

Client Sample ID: HA04@1'

Lab Sample ID: 885-17745-7

Date Collected: 12/30/24 14:10

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 21:29
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 21:29

Eurofins Albuquerque

Lab Chronicle

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA04@1'

Lab Sample ID: 885-17745-7

Date Collected: 12/30/24 14:10

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 15:48
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 14:30

Client Sample ID: HA04@5'

Lab Sample ID: 885-17745-8

Date Collected: 12/30/24 14:21

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 21:52
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 21:52
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 16:04
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 14:41

Client Sample ID: HA05@1'

Lab Sample ID: 885-17745-9

Date Collected: 12/30/24 13:44

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 22:16
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 22:16
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 16:15
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 14:52

Client Sample ID: HA05@5'

Lab Sample ID: 885-17745-10

Date Collected: 12/30/24 14:02

Matrix: Solid

Date Received: 12/31/24 07:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8015M/D		1	18747	JP	EET ALB	01/02/25 22:39
Total/NA	Prep	5030C			18672	JP	EET ALB	12/31/24 17:11
Total/NA	Analysis	8021B		1	18746	JP	EET ALB	01/02/25 22:39
Total/NA	Prep	SHAKE			18756	MI	EET ALB	01/02/25 15:40
Total/NA	Analysis	8015M/D		1	18776	MI	EET ALB	01/03/25 16:25

Lab Chronicle

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Client Sample ID: HA05@5'

Date Collected: 12/30/24 14:02

Date Received: 12/31/24 07:35

Lab Sample ID: 885-17745-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			18717	EH	EET ALB	01/02/25 11:17
Total/NA	Analysis	300.0		20	18689	EH	EET ALB	01/02/25 15:03

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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Accreditation/Certification Summary

Client: Ensolum LLC
Project/Site: San Juan 27 5 Un 169M

Job ID: 885-17745-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-25-25

Login Sample Receipt Checklist

Client: Ensolum LLC

Job Number: 885-17745-1

Login Number: 17745

List Source: Eurofins Albuquerque

List Number: 1

Creator: Dominguez, Desiree

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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State of New Mexico

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Oil Conservation Division

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Santa Fe, NM 87505

QUESTIONS

Action 514927

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2435855327
Incident Name	NAPP2435855327 SAN JUAN 27-5 UNIT 169M @ 30-039-27638
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-039-27638] SAN JUAN 27 5 UNIT #169M

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 27-5 UNIT 169M
Date Release Discovered	12/17/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Production Tank Produced Water Released: 18 BBL Recovered: 11 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	18.58 BBL release (0.75 BBL oil & 17.83 BBL produced water). 10.5 BBLs recovered.

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QUESTIONS, Page 2

Action 514927

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	N/A

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 10/14/2025
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QUESTIONS, Page 3

Action 514927

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	650
GRO+DRO (EPA SW-846 Method 8015M)	650
BTEX (EPA SW-846 Method 8021B or 8260B)	45.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	12/30/2024
On what date will (or did) the final sampling or liner inspection occur	12/30/2024
On what date will (or was) the remediation complete(d)	12/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 514927

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No remediation needed
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 10/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 514927

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 514927

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	415440
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/30/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 10/14/2025
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QUESTIONS, Page 7

Action 514927

QUESTIONS (continued)

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	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 514927

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 514927
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.	1/13/2026